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**DOCUMENT-IDENTIFIER:** EP 122089 A1

**TITLE:** Endoscope.

**PUBN-DATE:** October 17, 1984

**INVENTOR-INFORMATION:**

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**EUR-CL (EPC):** A61B001/12

**US-CL-CURRENT:** 385/116 , 600/116

**ABSTRACT:**

CHG DATE=19990617 STATUS=O> An endoscope comprises an image fibre (4) for transmitting an image of a surface (H) to be observed, a light guide (5, 6) for transmitting light to illuminate the surface (H) and a transparent liquid supply tube (7) arranged generally side by side along part of their length. A balloon (3) covers the distal ends of the image fibre (4), the light guide (5,6) and the liquid supply tube (7) and can be inflated with transparent liquid supplied through the tube (7 by a syringe (F). In addition to the supply tube (7) there is a liquid outlet tube (8) having a closure valve (G) which, when open allows transparent liquid supplied to the balloon (3) through the tube (7) to be discharged through the

tube (8) while the supply still continues, thus providing a flow of liquid through the balloon (3). This enables air bubbles in the balloon and in the liquid supply tube (7) to be removed much more easily than was previously possible with only a single liquid tube leading to the balloon.



European Patent  
Office

## EUROPEAN SEARCH REPORT

0122089

Application number

EP 84 30 2156

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
P, A	WO-A-8 303 188 (LASERSCOPE INC.) * Page 2, line 14 - page 3, line 23; page 5, line 32 - page 7, line 20; figures 1-5 * ---	1	A 61 B 1/12
A	DE-A-2 848 484 (OLYMPUS OPTICAL CO., LTD.) * Page 5, line 7 - page 10, line 4; figures 1-5 * ---	1	
A	WO-A-8 203 545 (J. WIDRAN & H. KREBS) * Page 6, line 11 - page 13, line 18; figures 1-6 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			A 61 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-06-1984	Examiner ZILLIOX J.M.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO Form 1503, 03/82

Fig. 1

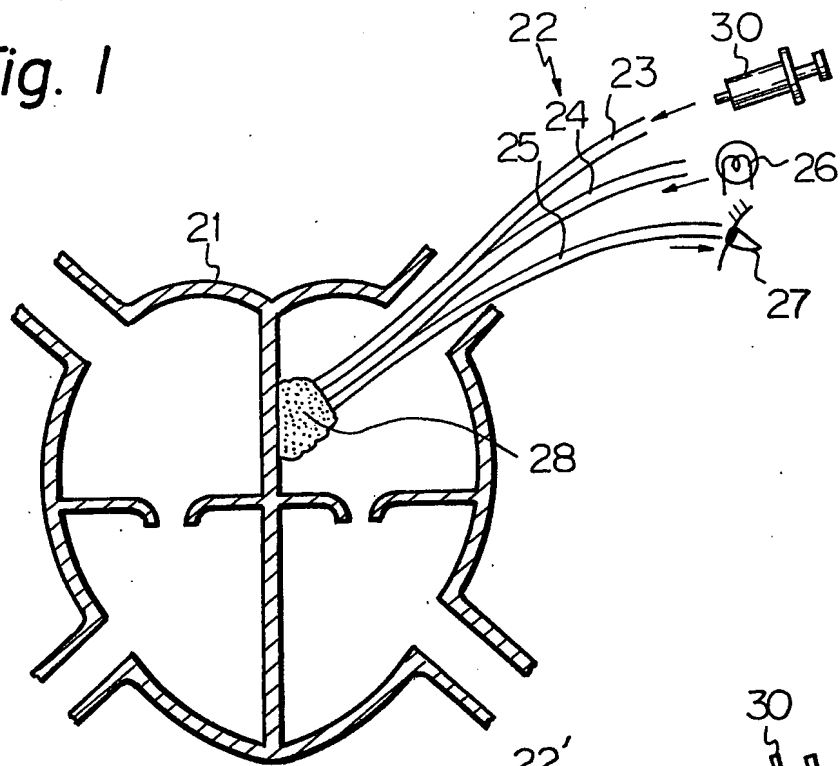
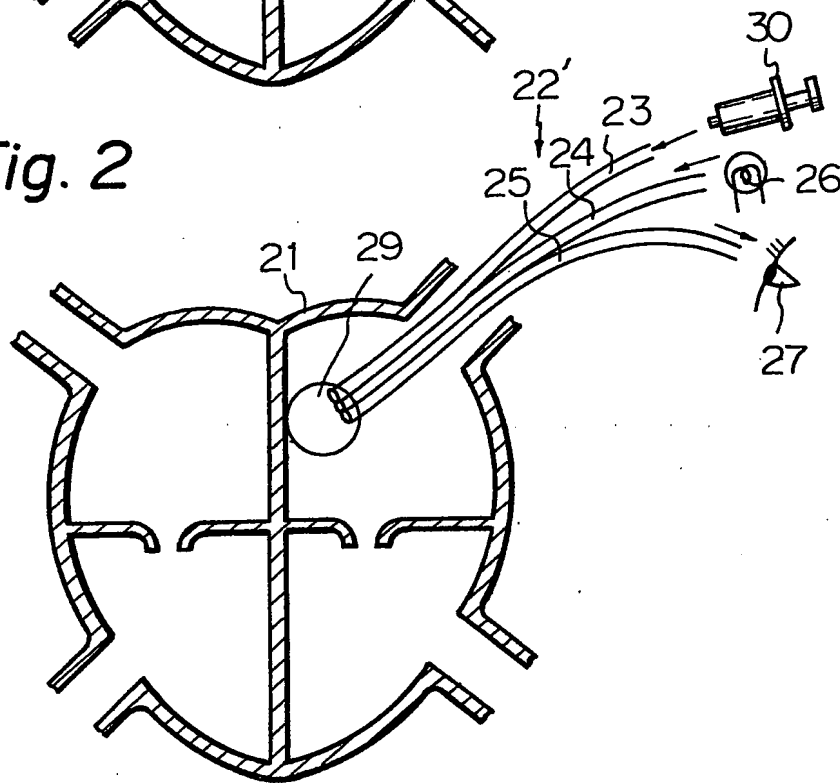


Fig. 2



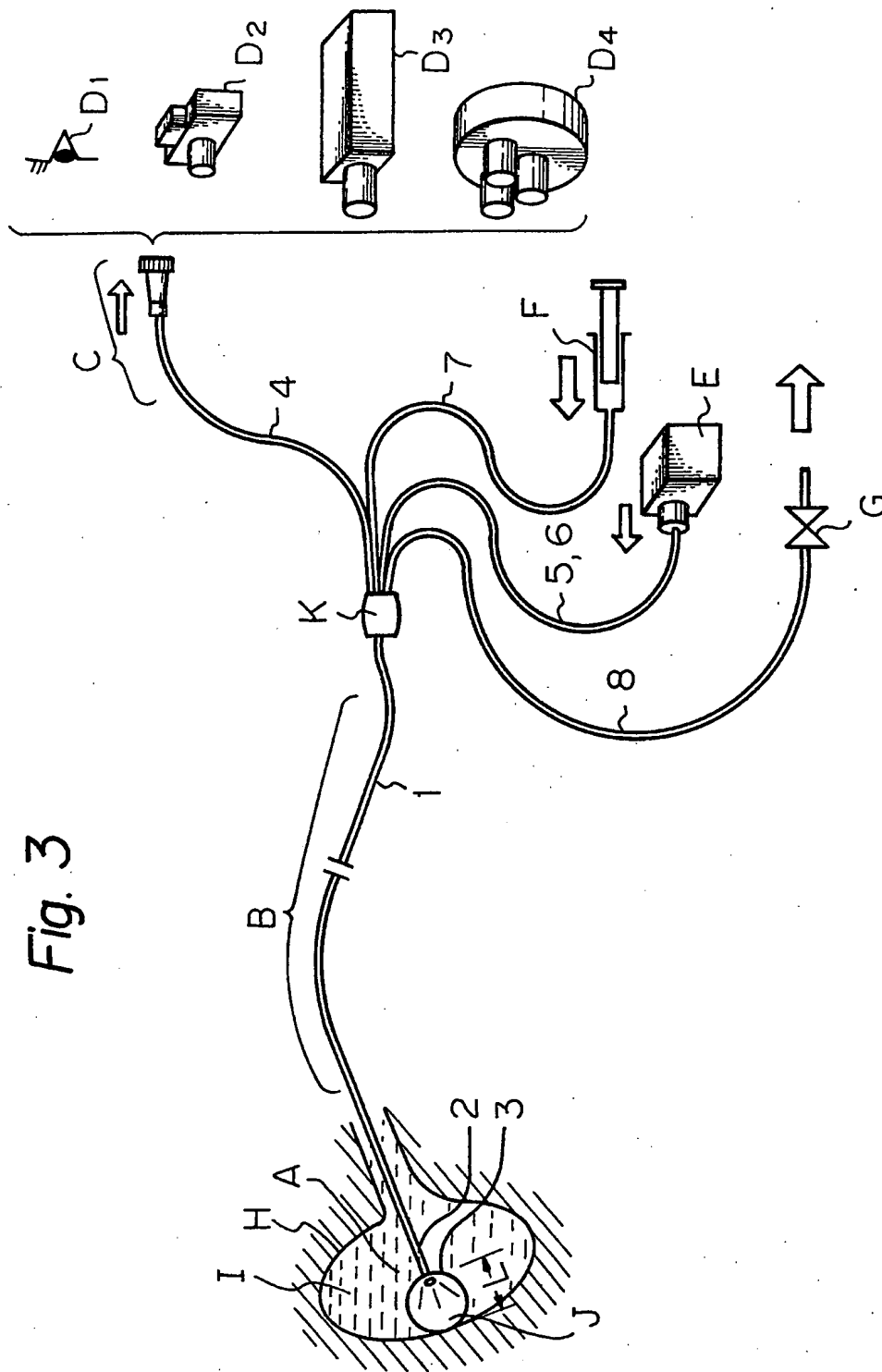


Fig. 4

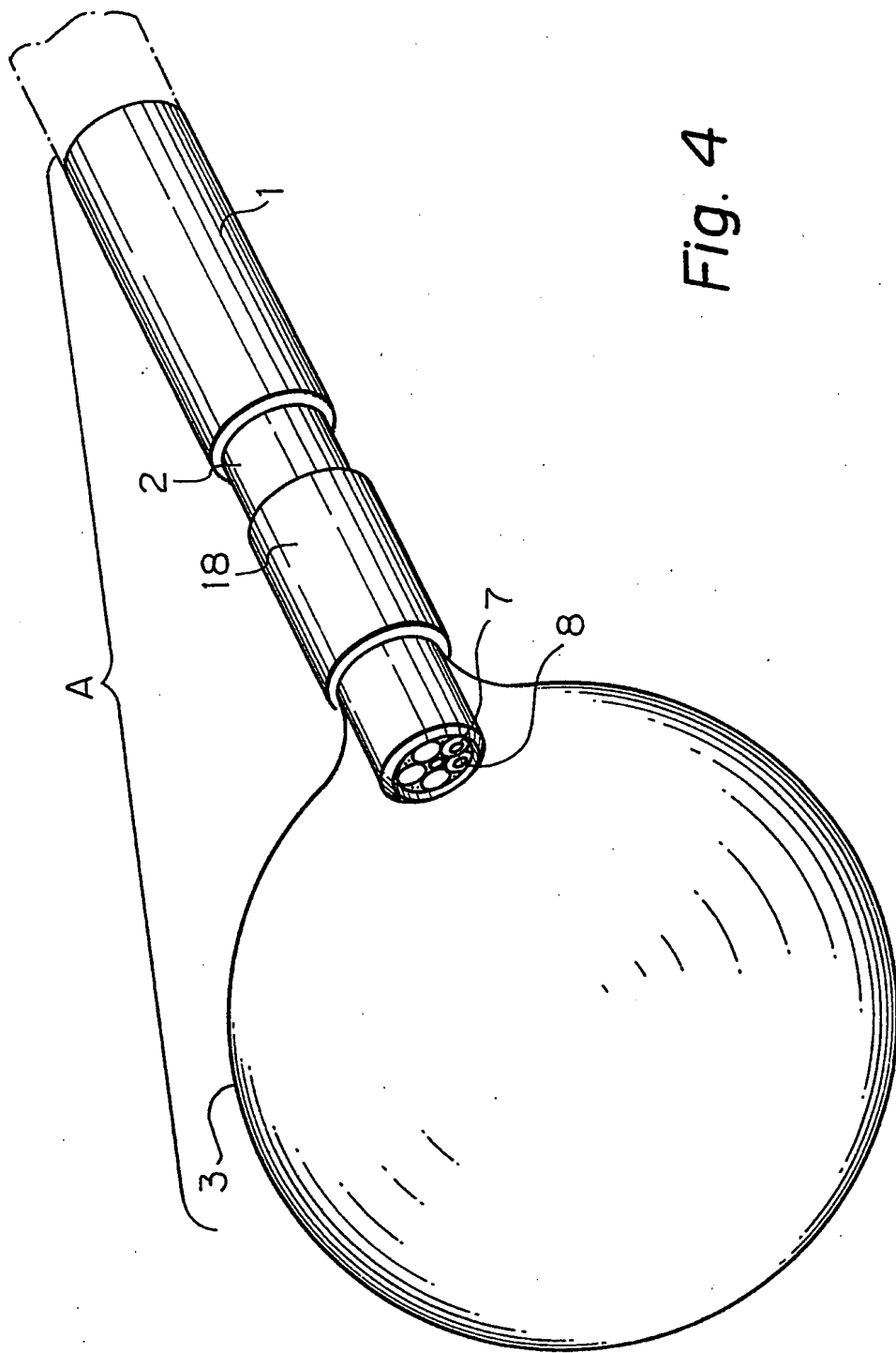
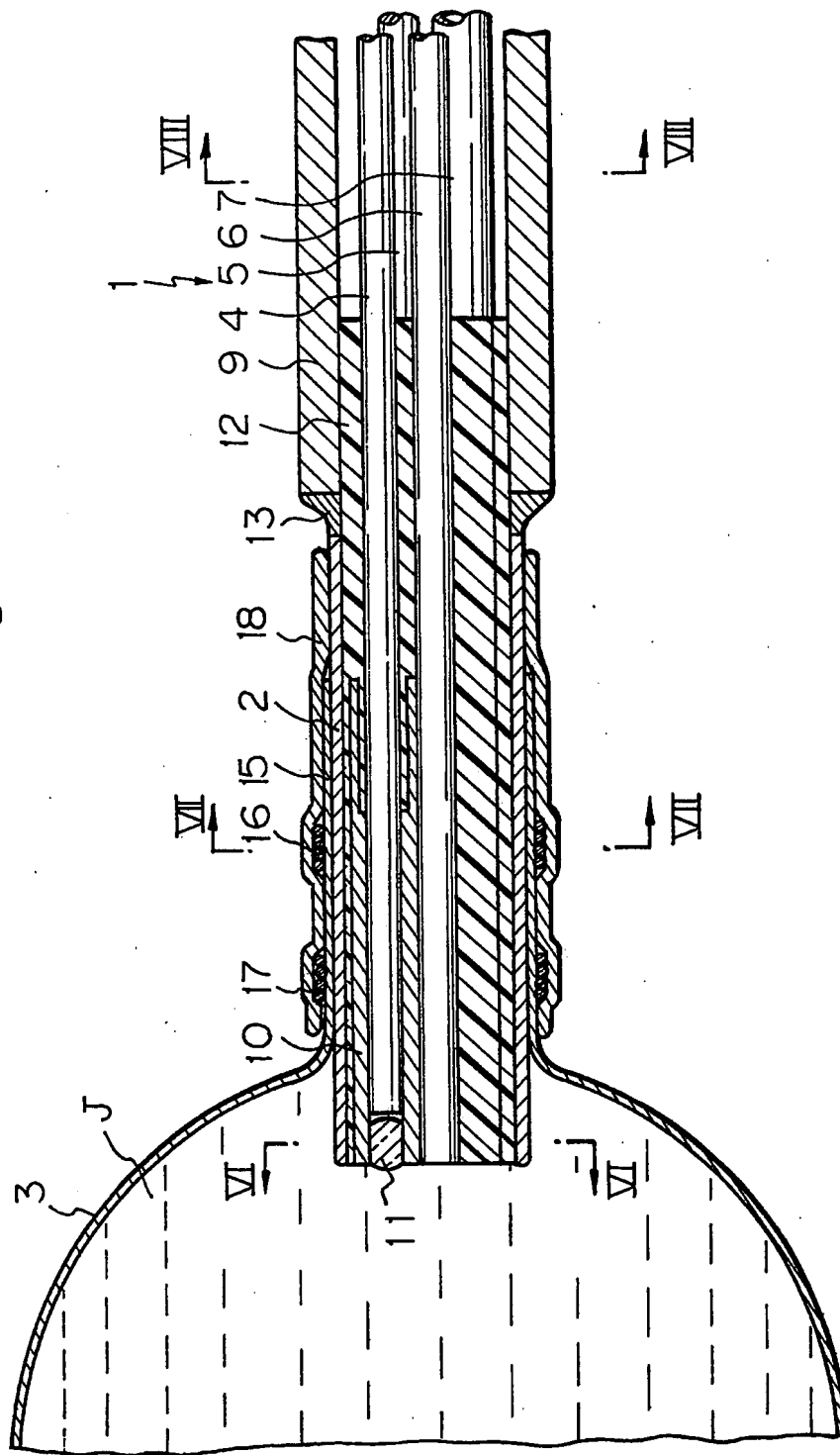
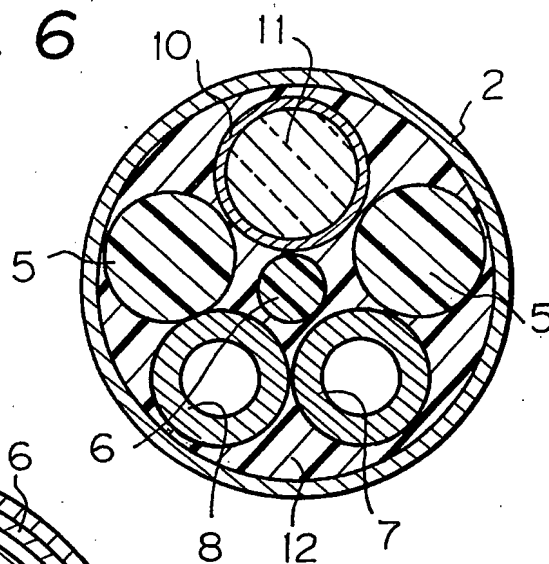
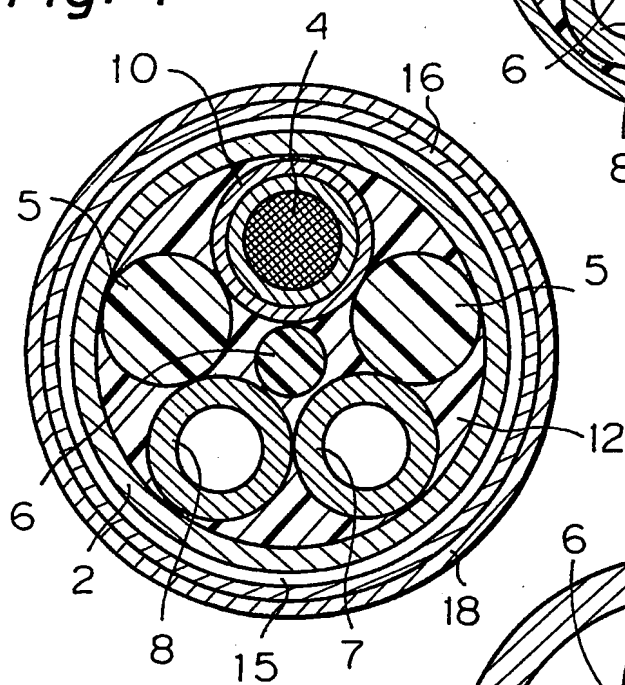


Fig. 5



*Fig. 6**Fig. 7**Fig. 8*